

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent Number: US 7,031,343 B1  
Application Number: 09/715,275  
Date Patent Issued: April 18, 2006  
Name of Patentee: Jerchen Kuo, et al.  
Name of Inventor(s): Jerchen Kuo, Dumitru Gruia, Glen Kramer, Gerry Pesavento  
Assignee: Alloptic, Inc., Livermore, CA (US)  
Title of Invention: POINT-TO-MULTIPOINT PASSIVE OPTICAL NETWORK  
THAT UTILIZES VARIABLE-LENGTH PACKETS  
Attorney Docket No.: A0638.003

To: Office of Patent Publication  
ATTN: Certificate of Correction Branch  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDED REQUEST FOR CERTIFICATE OF CORRECTION UNDER  
37 C.F.R. §1.323 AND 35 U.S.C. §255**

Patentee respectfully requests that a Certificate of Correction be issued by the Patent and Trademark Office for U.S. Patent No. US 7,031,343 B1 issued April 18, 2006. Upon reviewing the claims in the printed patent, the patentee noted that the following mistakes of a clerical or

typographical nature, or a mistake of minor character, which were not the fault of the Patent and Trademark Office, appear in the subject patent and the exact pages and line numbers should be corrected as follows:

Column 11

*Line 13:* please change "downstream" to --upstream--

*Line 24:* please change "packed" to --packet--

*Line 61:* please change "mutiple" to --multiple--

Column 16

*Line 22:* please change "comprising and optical line terminal"  
to --comprising: an optical line terminal--

The typographical error occurring in Column 11, Line 13 was made in applicant's amendment filed September 14, 2005 in response to the Office Action dated August 12, 2003. This error was made in good faith and unintentionally changed the word "upstream" to downstream".

The following is the current claim 1, as published in the subject patent:

**Claim 1, as published:**

What is claimed is:

1. A point-to-multipoint optical communications system comprising: an optical line terminal (OLT); and a plurality of optical network units (ONUs) connected to said OLT by a passive optical network in which downstream data is transmitted from said OLT to said ONUs over said passive optical network and upstream data is transmitted from said ONUs to said OLT over said passive optical network: said OLT transmitting downstream data over said passive optical network in variable-length downstream packets; said ONUs transmitting **downstream** data over said

passive optical network within ONU-specific time slots utilizing time division multiplexing, wherein said ONU-specific time slots are filled with multiple variable-length upstream packets; said OLT includes: a fragment buffer for storing packet fragments that have been transmitted upstream from said ONUs; and fragment logic for: identifying said end-of-packet-fragment code of said first packet fragment; buffering said first packet fragment in said OLT fragment buffer; identifying said start-of-packet-fragment code of said first packet fragment; reconstructing said variable-length upstream packet from said first and second packet fragments; said ONUs include: fragment buffers for storing packet fragments that are to be transmitted upstream from said ONUs; and fragment logic for: splitting a variable-length upstream packet into first and second packet fragments; and adding an end-of-packet-fragment code to said first packet fragment and adding a start-of-packet-fragment code to said second packet fragment.

The word "downstream" (in bold) above is a typographical error. The word should be "upstream".

Applicant's May 6, 2003 amendment introduced the new claim 73 (claim 1). The "upstream" reference, which is in question, is highlighted below. Claim 73 in this amendment correctly reads as follows:

73. **(new)** A point-to-multipoint optical communications system comprising:

...

said OLT transmitting downstream data over said passive optical network in variable-length downstream packets.

said ONUs transmitting **upstream** data over said passive optical network within ONU-specific time slots utilizing time division multiplexing, wherein said ONU-specific time slots are filled with multiple variable-length upstream packets

....

Then Applicant submitted an amendment filed September 14, 2005, which was the last amendment prior to publication, referencing Claim 73 as "previously added". However, in that amendment, the word "upstream" was unintentionally changed to "downstream" as highlighted below:

73. **(previously added)** A point-to-multipoint optical communications system comprising:

...

said OLT transmitting downstream data over said passive optical network in variable-length downstream packets;

said ONUs transmitting **downstream** data over said passive optical network within ONU-specific time slots utilizing time division multiplexing, wherein said ONU-specific time slots are filled with multiple variable-length upstream packets;

....

The Applicant did not intend to amend the claim to change the term to "downstream". In fact, Applicant referenced the claim as "previously added", meaning that the claim was intended to be the same claim that was previously added in Applicant's May 6, 2003 Amendment, which had the term "upstream". The distinction is an important one, and is critical to the meaning of the claim.

These mistakes were unintentional and made in good faith. The corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

Transmitted herewith is a Certificate of Correction to correct the mistakes shown on the attached Form PTO/SB/44.

The \$100.00 fee for the Certificate of Correction is being paid electronically.

Patentees' undersigned attorney may be reached by telephone at (925) 460-3700. All correspondence should continue to be directed to our address given below.

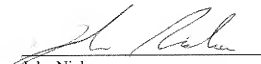
Issuance of a Certificate of Correction containing the correction is respectfully requested.

Respectfully submitted,

Date: June 26, 2007

Randick O'Dea & Tooliatos, LLP

By:

  
John Nielsen  
Patent Counsel for Patentees  
USPTO Reg. No. 53,392

RANDICK ODEA & TOOLIATOS, LLP  
5000 Hopyard Road, Suite 400  
Pleasanton, CA 94588  
Facsimile: (925) 460-0969  
e-mail: jnielsen@randicklaw.com

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**AMENDED CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : US 7,031,343

APPLICATION NO.: 09/715,275

ISSUE DATE : April 18, 2006

INVENTOR(S) : Jerchen Kuo, Dumitru Gruia, Glen Kramer, Gerry Pesavento

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**Column 11**

Line 13: please change "downstream" to --upstream--

Line 24: please change "packed" to --packet--

Line 61: please change "mutiple" to --multiple--

**Column 16**Line 22: please change "comprising and optical line terminal" to  
--comprising: an optical line terminal--**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

John Nielsen  
RANDICK ODEA & TOOLIATOS, LLP  
5000 Hopyard Road, Suite 400, Pleasanton, CA 94588

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.